AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims.

1. (Previously Presented)   A method of compressing video, comprising:

grouping video frames that are only between consecutive I-frames into a video data set;

splitting the video data set into a plurality of homogeneous files; and

individually compressing each of the homogeneous files.

2. (Original)   A method according to claim 1, wherein the video frames include P-frames and B-frames.

3. (Original)   A method according to claim 1, wherein said splitting includes storing mode information of the video data set and motion components in separate files.

4. (Original)   A method according to claim 1, wherein said splitting includes storing horizontal components of the video data set and vertical components of the video data set in separate files.

5. (Original)   A method according to claim 1, wherein said splitting includes storing B-frame components of the video data set and P-frame components of the video data set in separate files.

6. (Original)   A method according to claim 1, wherein said splitting includes storing mode 3 B-frame components of the video data set and mode 0, 1, and 2 B-frame components of the video data set in separate files.

7. (Original)   A method according to claim 1, wherein said splitting includes storing different color components of the video data set in different files.

8. (Original)   A method according to claim 1, further comprising mapping negative values in one of the homogeneous files into positive values.

9. (Original)   A method according to claim 1, wherein said compressing includes applying a grammar-based code.

10. (Original)   A method according to claim 9, wherein said applying includes employing a YK algorithm.

11. (Original)   A method according to claim 1, wherein said compressing includes bit plane encoding quantized transform coefficients obtained from the video data set.

12. (Original)   A method according to claim 11, wherein said compressing includes performing a run-length encoding of bit planed encoded coefficients.

13. (Original)   A method according to claim 1, wherein said homogeneous files have similar statistical properties.

14.   (Original)   A method according to claim 1, further comprising multiplexing the separate files into a bit stream.

15.   (Original)   A method according to claim 14, further comprising prefixing a corresponding header to each of the separate files, said header indicating a size of a corresponding separate file.

16.   (Currently Amended)   A <u>non-transitory</u> computer-readable storage medium bearing instructions for compressing video, said instructions being arranged, upon execution by one or more processors, to perform the steps of the methods as in any of claims 1-15.

17.   (Previously Presented)   A video compression system, comprising:

means for grouping video frames that are only between consecutive I-frames into a video data set;

means for splitting the video data set into a plurality of homogeneous files; and

means for individually compressing each of the homogeneous files.

18.   (Original)   A video compression system according to claim 17, further comprising:

means for multiplexing the individually compressed files into a bit stream.

19.   (Previously Presented)   A method of compressing video, comprising:

grouping video frames that are only between two consecutive I-frames into a video data set;

splitting the video data set into a plurality of individual data sequences; and

individually compressing each of the individual data sequences.

20. (Previously Presented) A method according to claim 19, wherein at least one of the individual data sequences contains information from each of the video frames that are only between the two consecutive I-frames.

21. (Canceled)

22. (Previously Presented) A method of compressing a video signal, comprising:

grouping video frames of the video signal that are only between consecutive I-frames into a video data set;

splitting the video data set into a plurality of individual data sequences; and

individually compressing each of the individual data sequences.

23. (Previously Presented) A method according to claim 22, further comprising multiplexing the individual data sequences into a bit stream.

24. (New) An apparatus for compressing video, comprising:

a processor configured to,

group video frames that are only between consecutive I-frames into a video data set;

split the video data set into a plurality of individual data sequences; and

individually compress each of the individual data sequences.

25. (New) An apparatus according to claim 24, wherein each of the individual data sequences comprises a homogeneous file.

26.   (New)   An apparatus according to claim 24, wherein the processor is further configured to multiplex the individual data sequences into a bit stream.